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Fig.1  
PRIOR ART

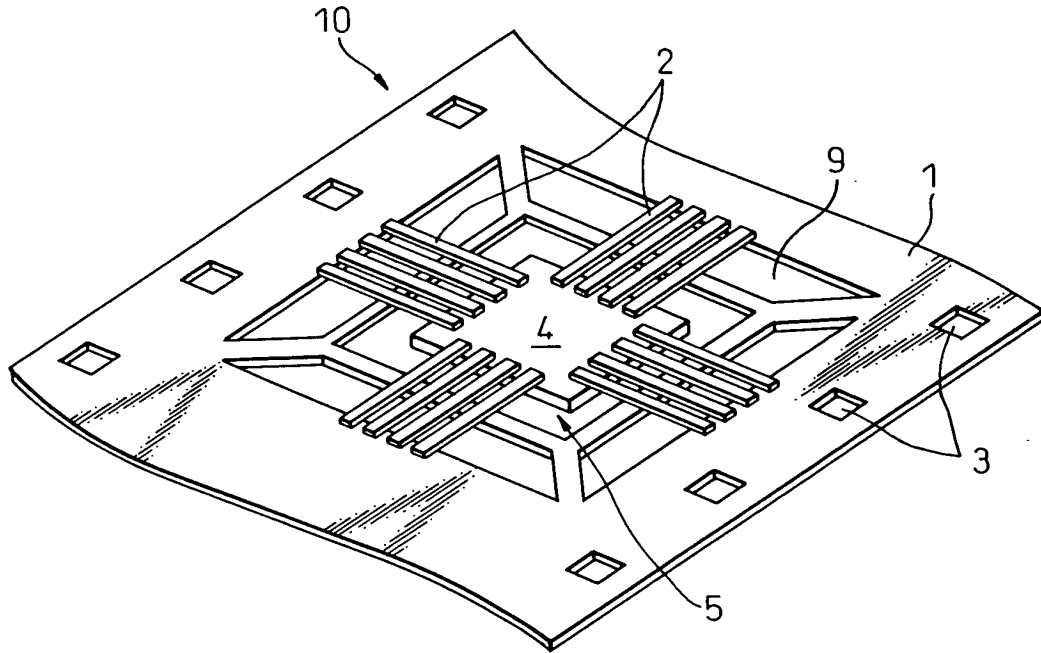


Fig.2  
PRIOR ART

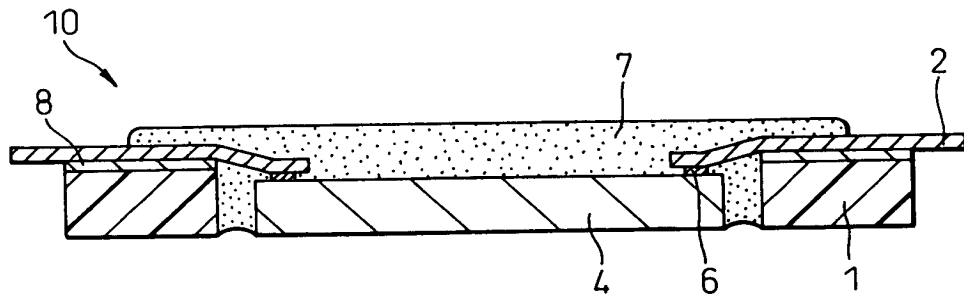
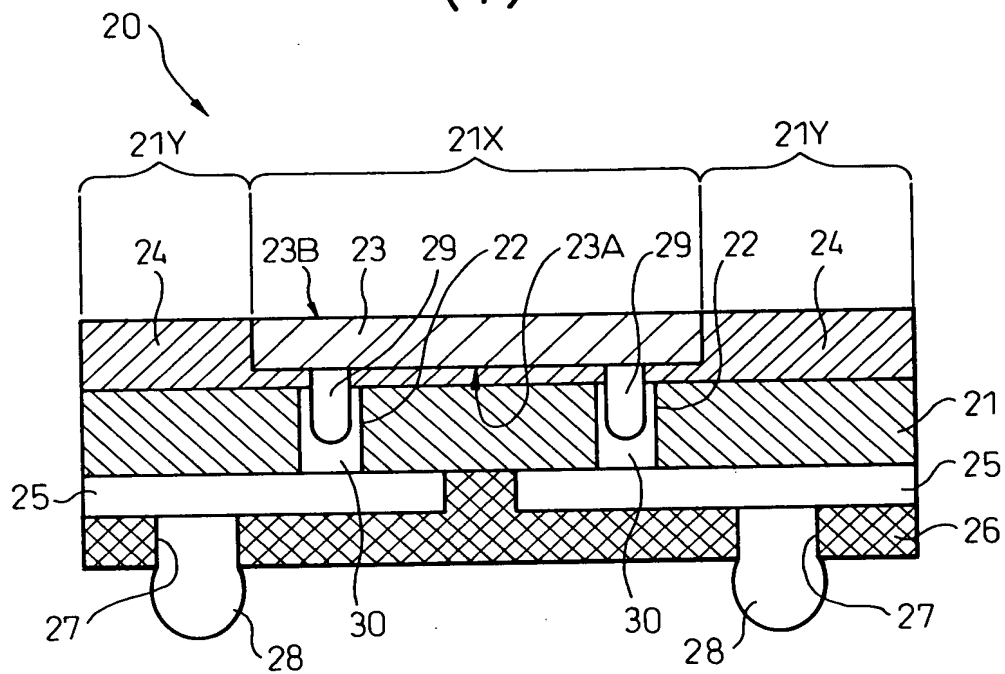


Fig.3  
(1)



(2)

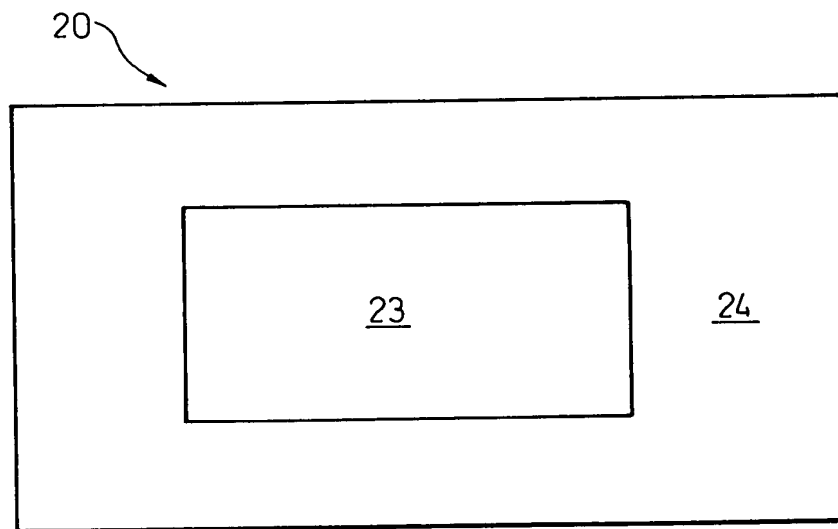


Fig. 4 is a cross-sectional view of the device of Fig. 1, taken along the line 4-4 of Fig. 1, showing the device in a second state of operation. In this state, the device is in a second state of operation, and the device is in a second state of operation.

Fig. 4

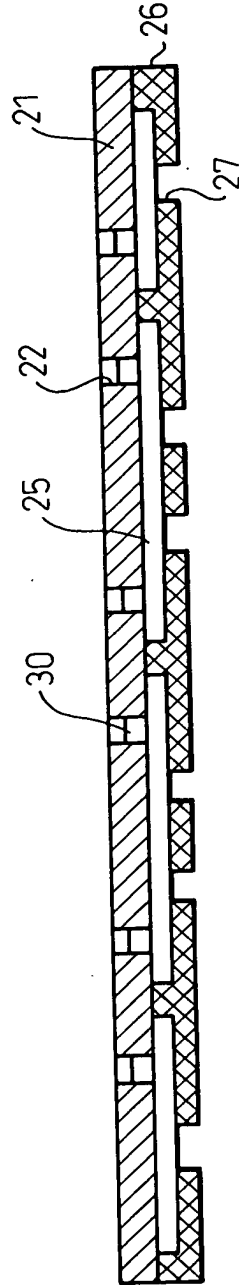


Fig.5

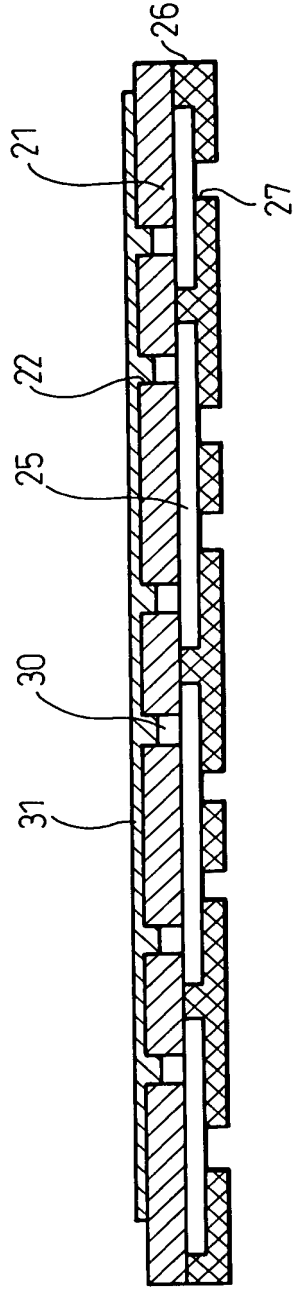






FIG. 8 is a cross-sectional view of the device of FIG. 7, taken along line 8-8 of FIG. 7, showing the device in a second state of operation. In this state, the device is configured to receive and store a sample of the fluid. The sample is drawn into the chamber 21 through the inlet 22 and is held in the chamber by the valve 23. The valve 23 is closed, preventing the sample from flowing out of the chamber. The sample is held in the chamber until it is ready to be analyzed.

Fig. 8

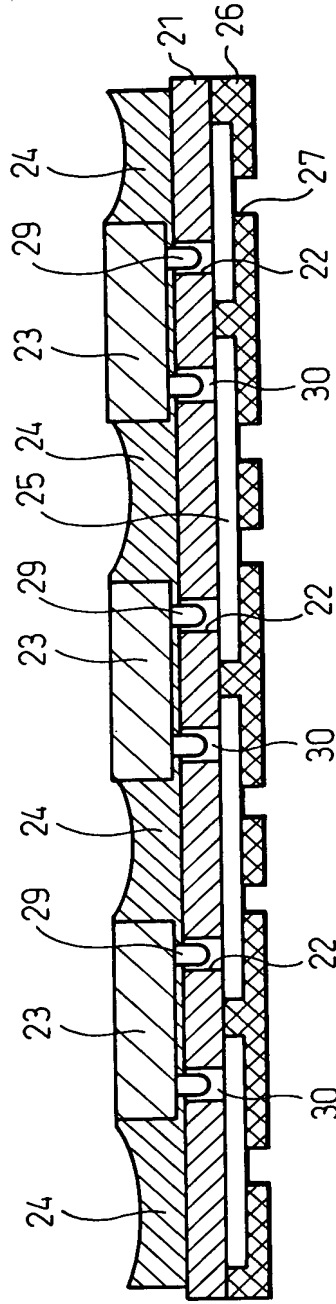


FIG. 9 is a cross-sectional view of a portion of a device in accordance with the present invention. The device includes a substrate 21, a first layer 22, a second layer 23, a third layer 24, a fourth layer 25, a fifth layer 26, a sixth layer 27, a seventh layer 28, an eighth layer 29, a ninth layer 30, and a tenth layer 31. The device is formed on a substrate 21. A first layer 22 is formed on the substrate 21. A second layer 23 is formed on the first layer 22. A third layer 24 is formed on the second layer 23. A fourth layer 25 is formed on the third layer 24. A fifth layer 26 is formed on the fourth layer 25. A sixth layer 27 is formed on the fifth layer 26. A seventh layer 28 is formed on the sixth layer 27. An eighth layer 29 is formed on the seventh layer 28. A ninth layer 30 is formed on the eighth layer 29. A tenth layer 31 is formed on the ninth layer 30. The device is formed on a substrate 21.

Fig.9

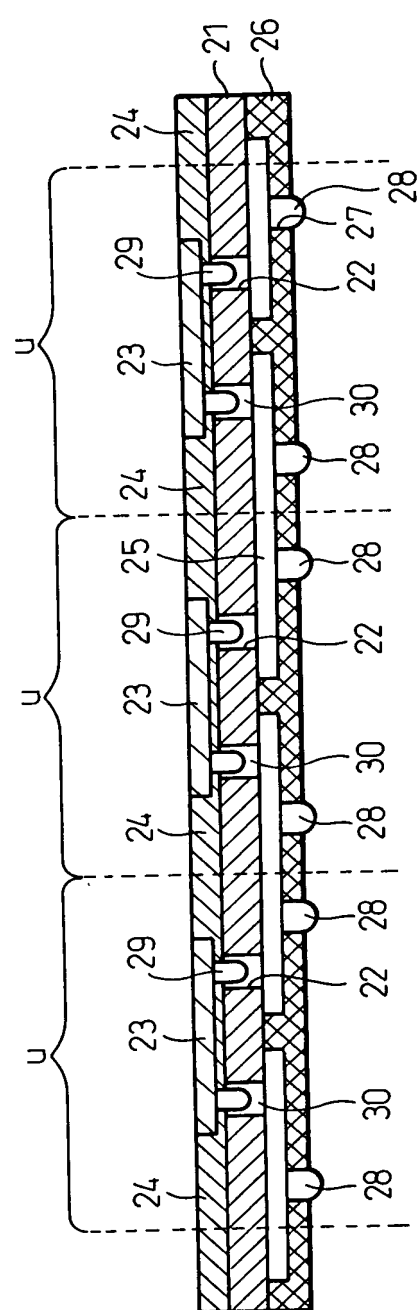
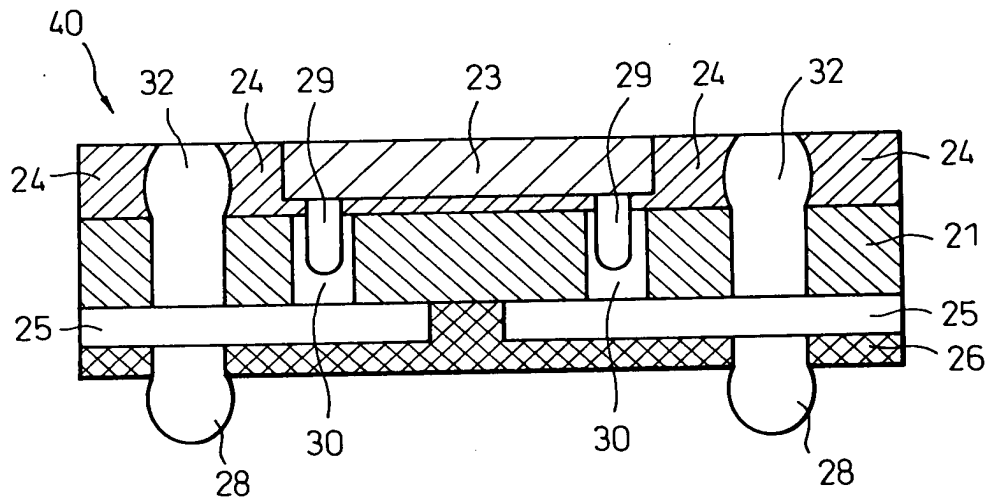


Fig.10

(1)



(2)

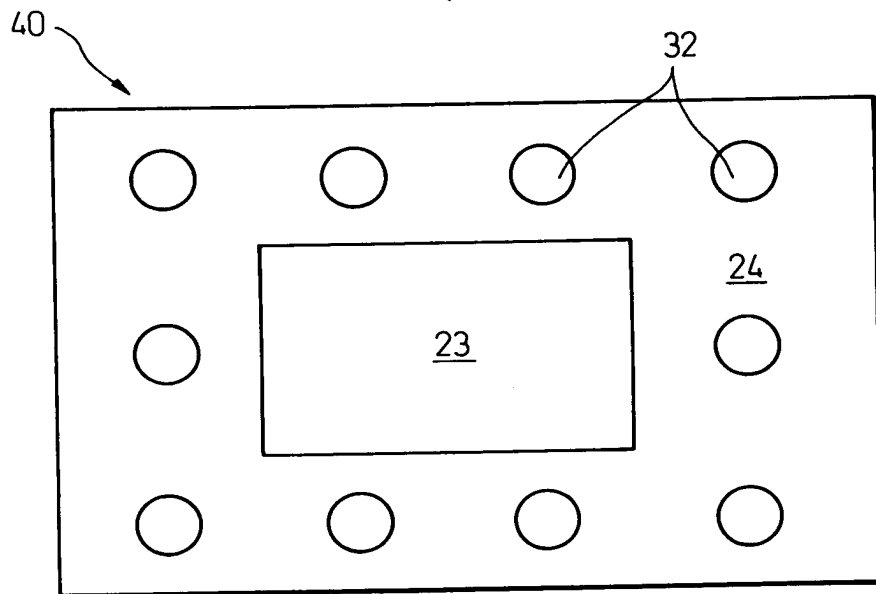


Fig.11

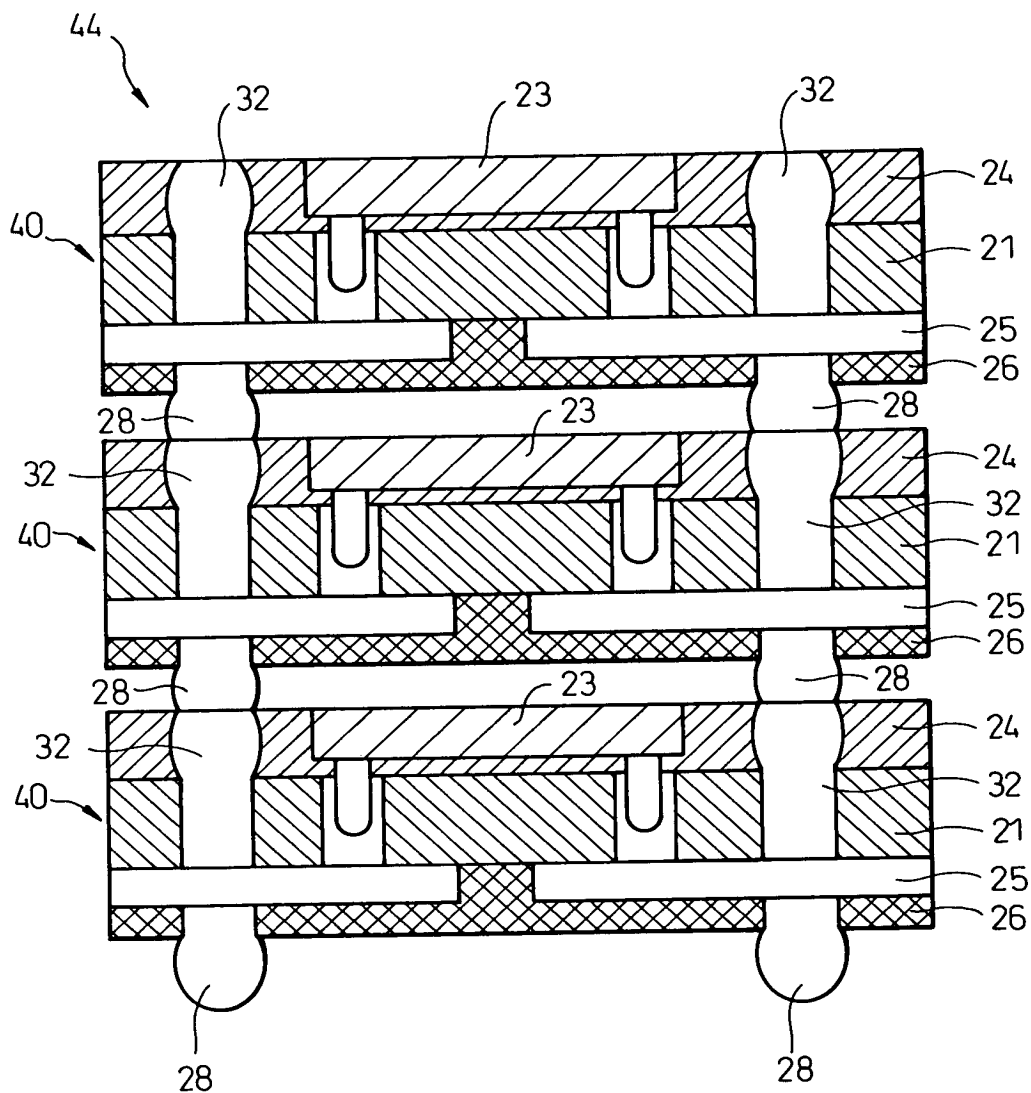


Fig. 12

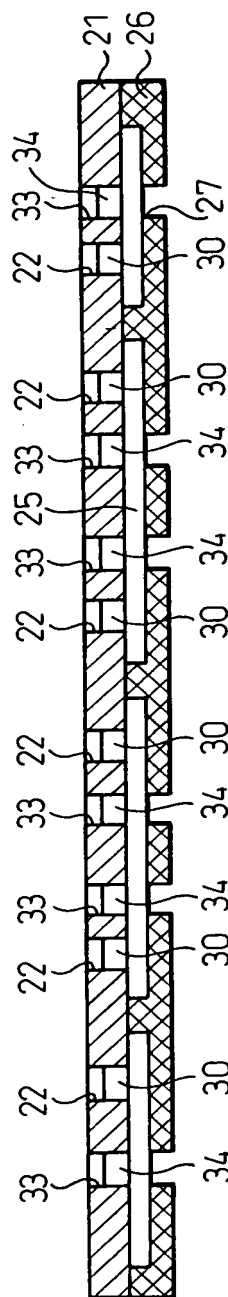


Fig.13

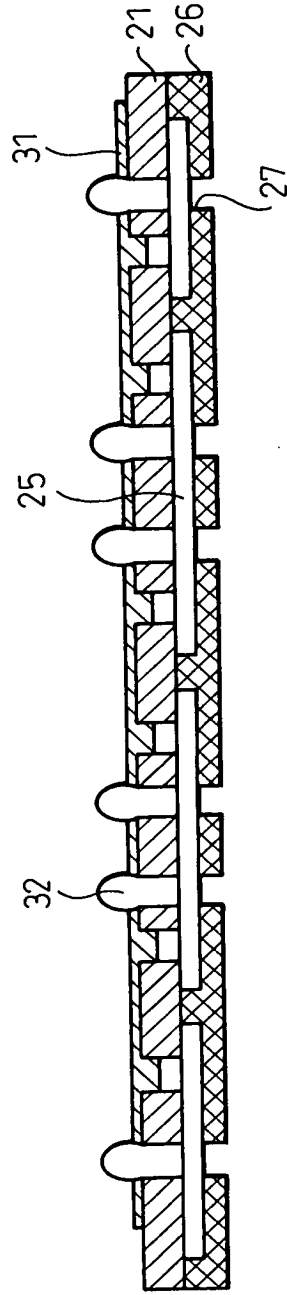


Fig.14

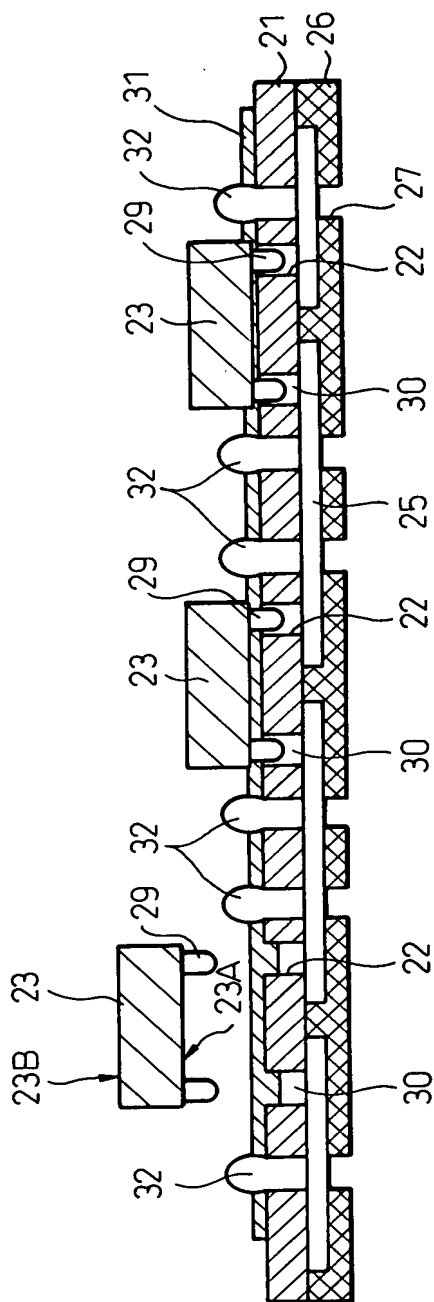
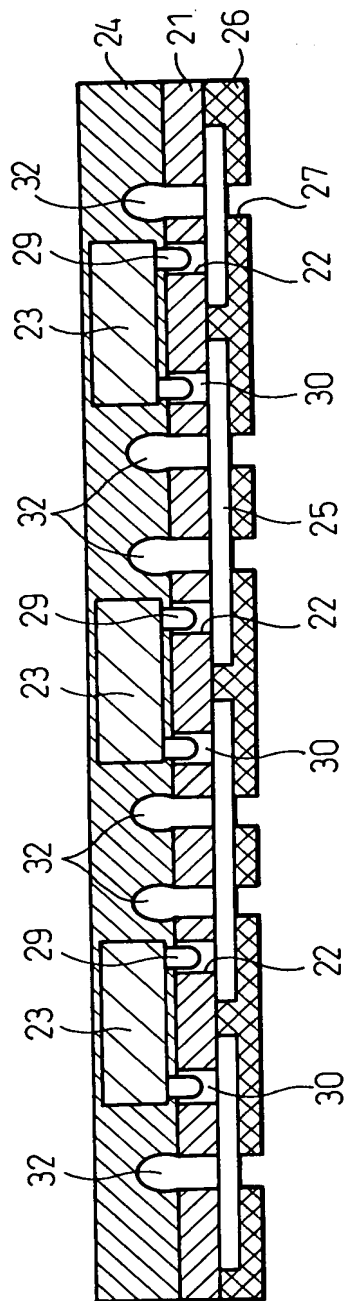


FIG. 15 is a cross-sectional view of the device of FIG. 14, showing the device in a second state. In this state, the device is in a retracted position, and the first and second electrodes are separated from the substrate. The device is shown in a retracted position, and the first and second electrodes are separated from the substrate.

Fig.15

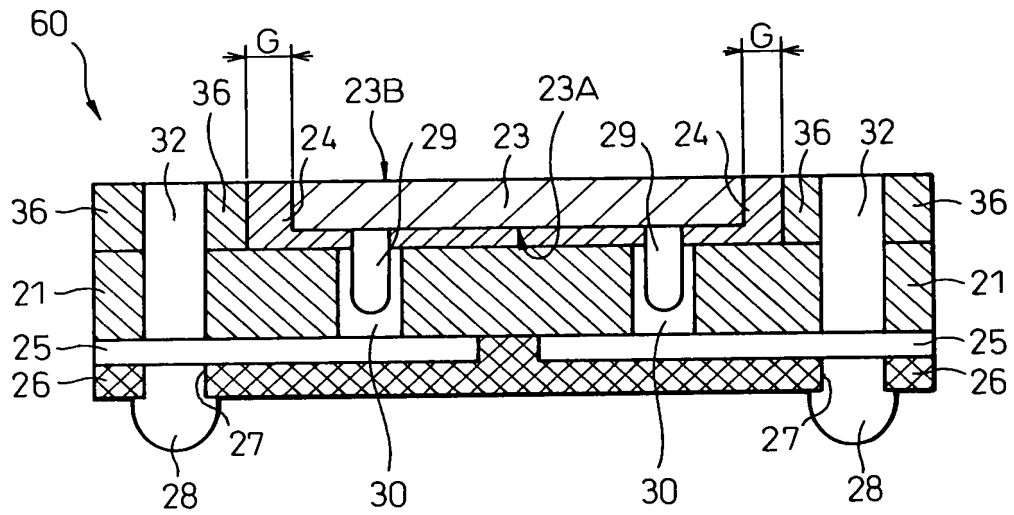


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Fig.17

(1)



(2)

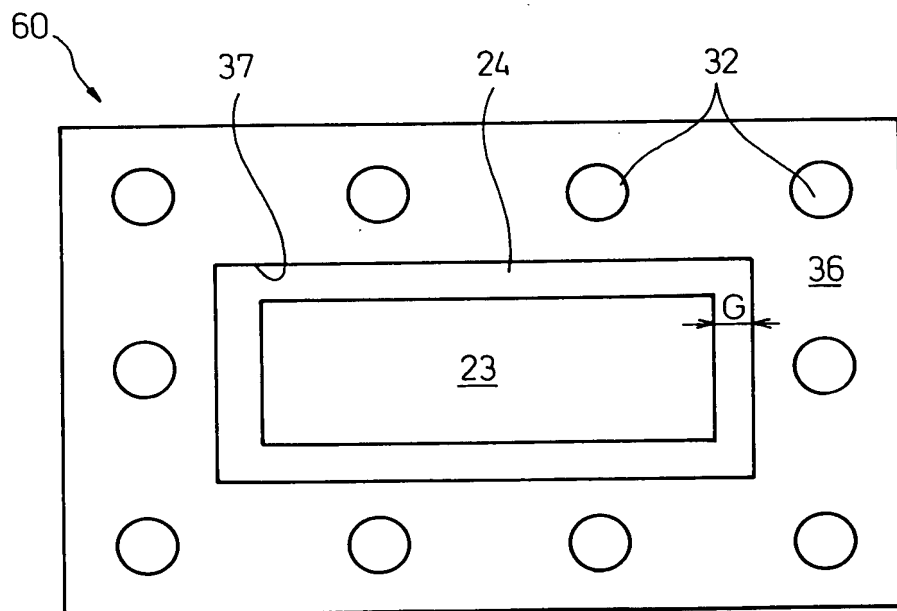


Fig.18

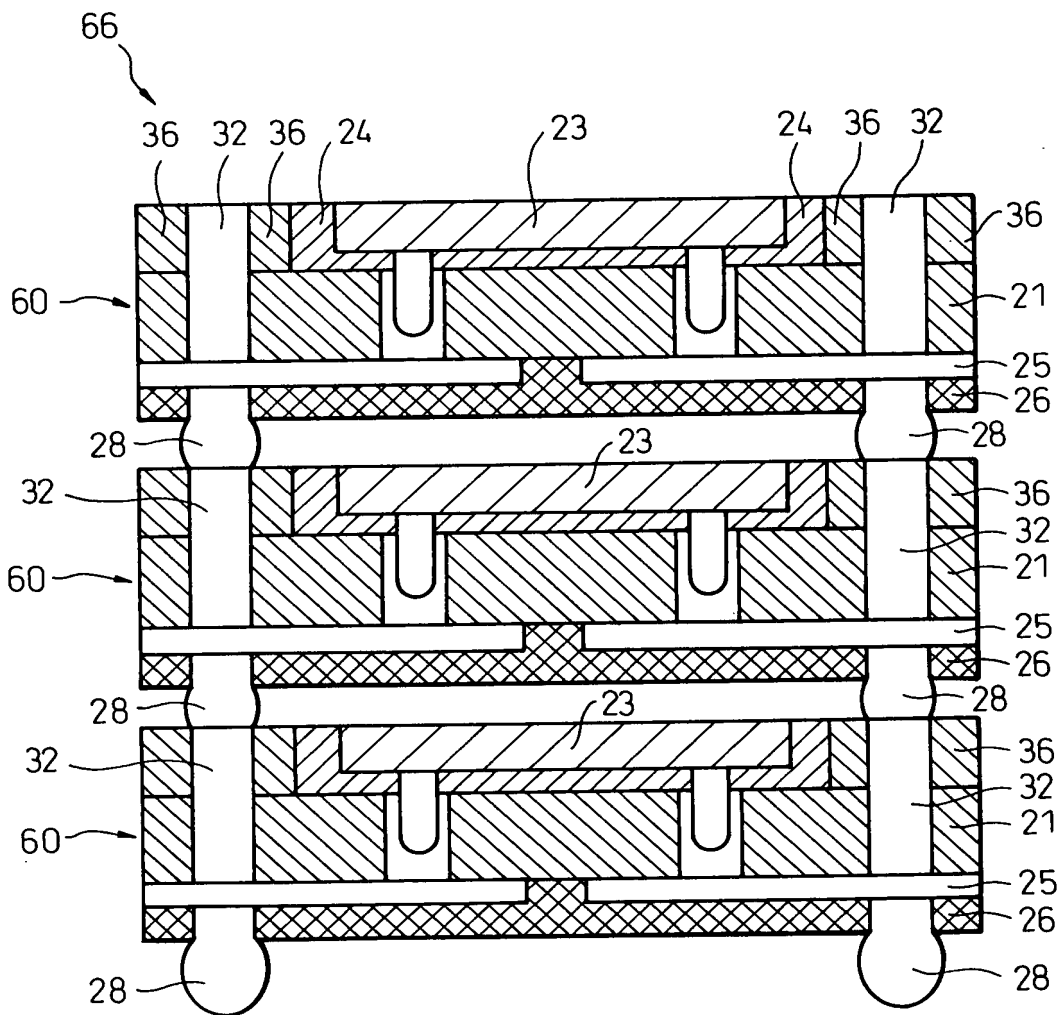


Fig.19

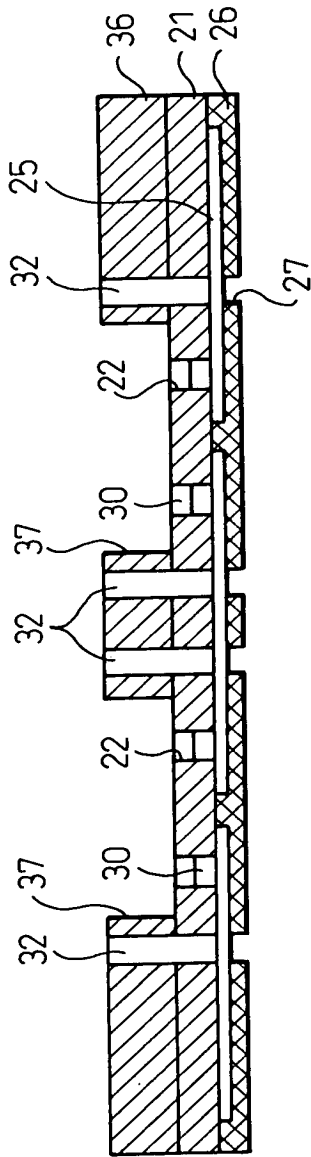




Fig. 21

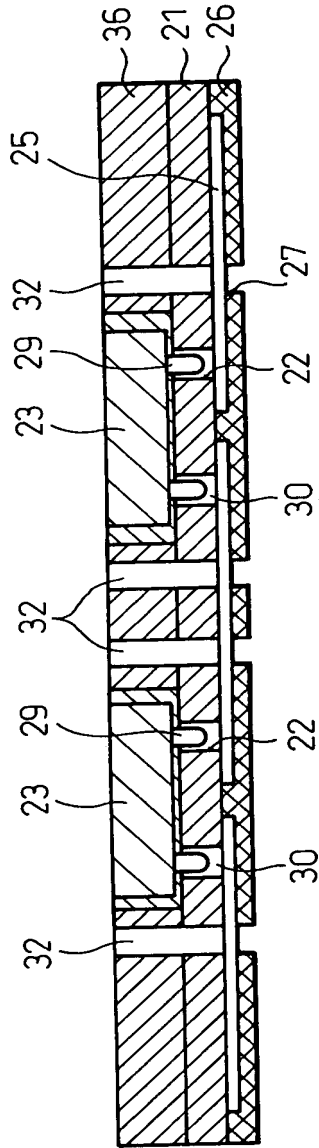


Fig.22

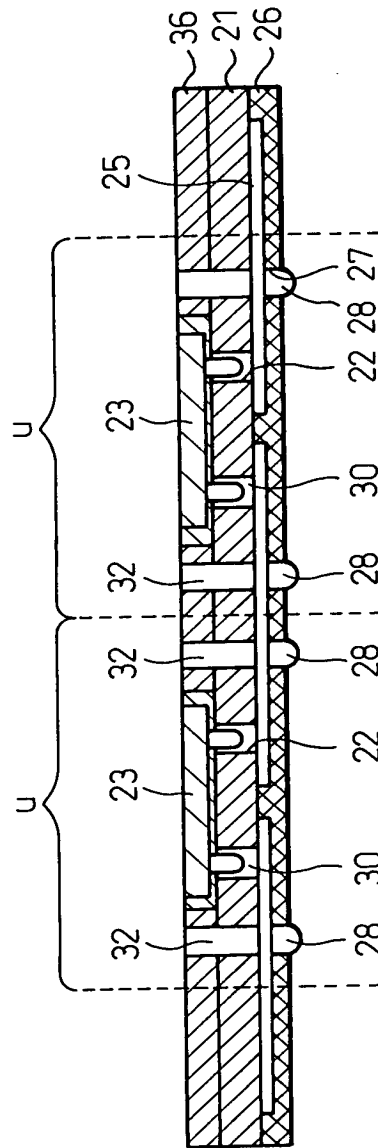


Fig.23

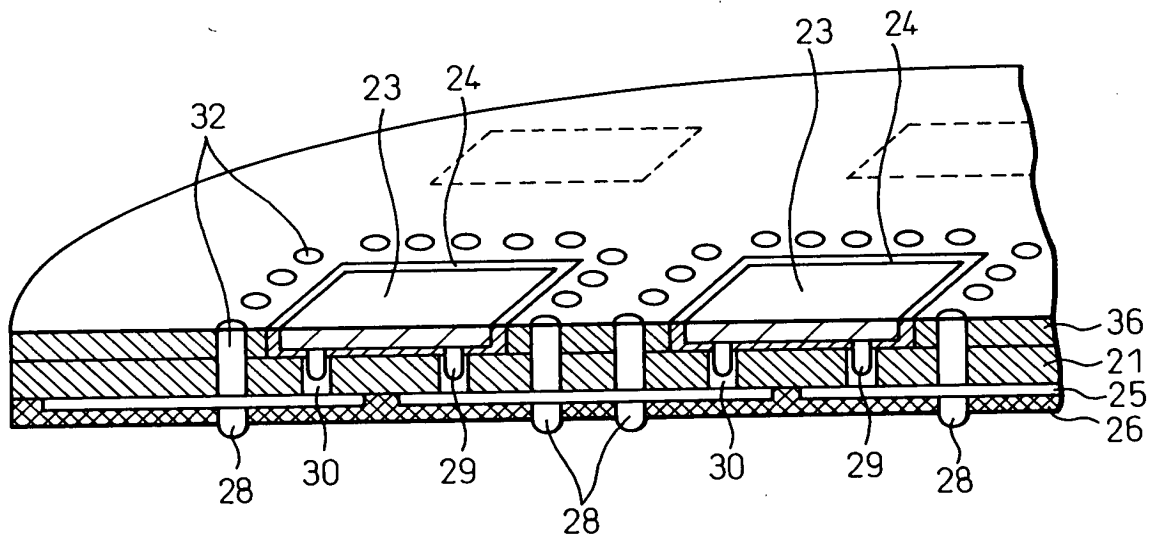
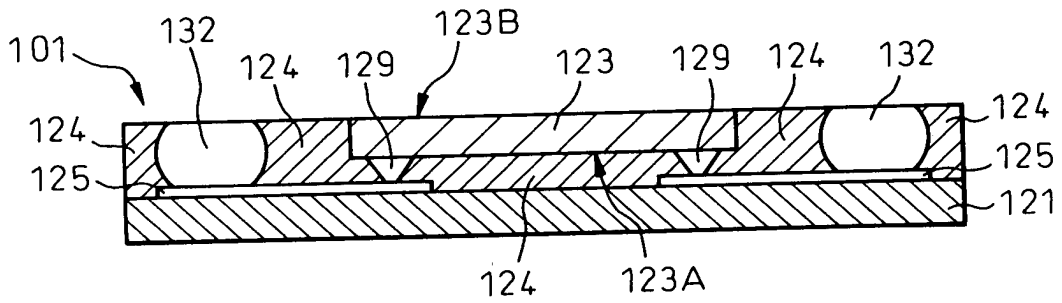
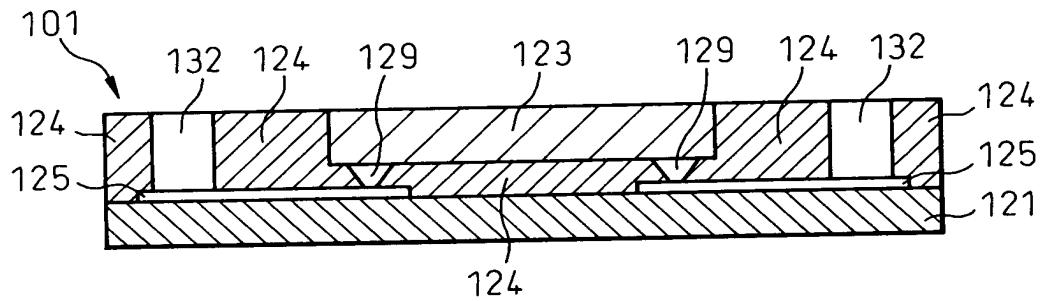


Fig. 24  
(1)



(2)



(3)

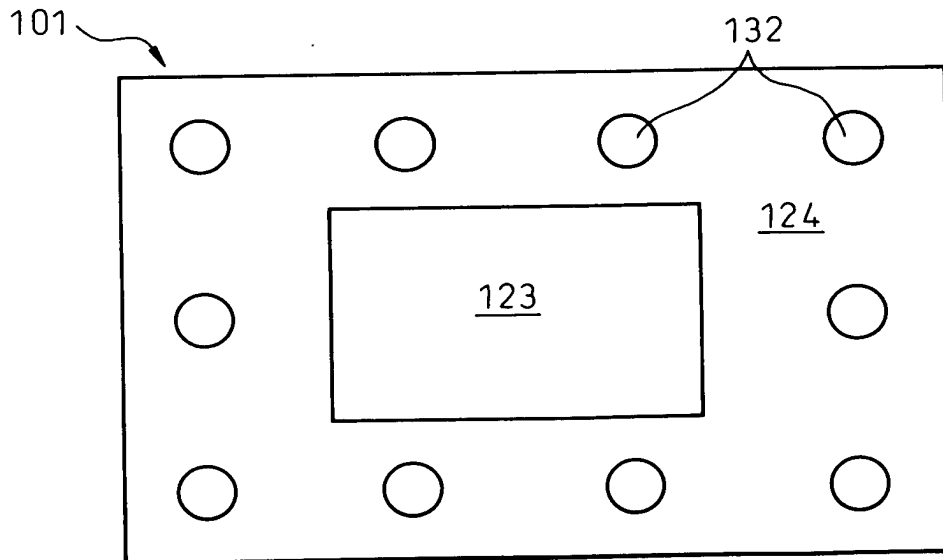


Fig.25

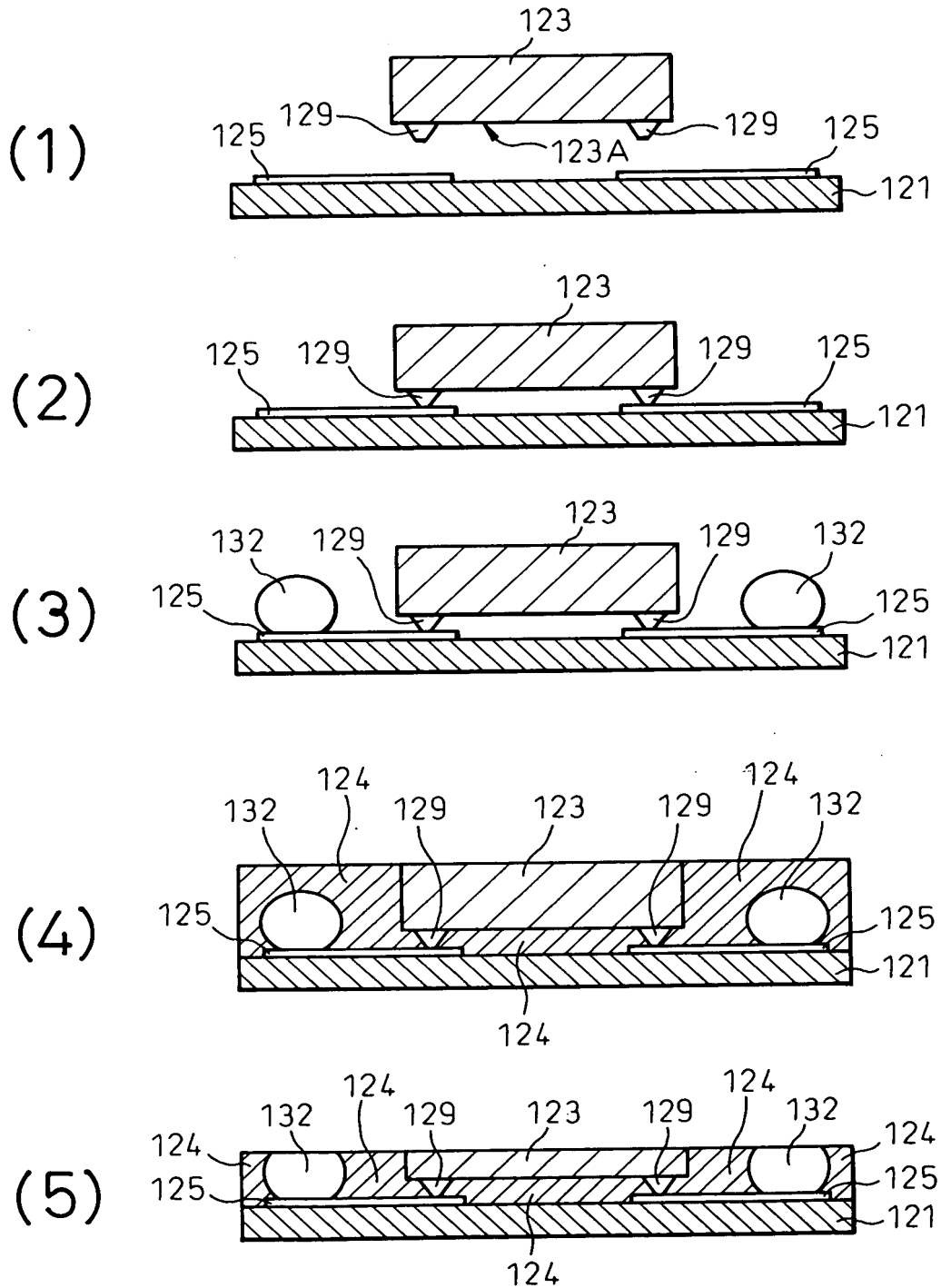
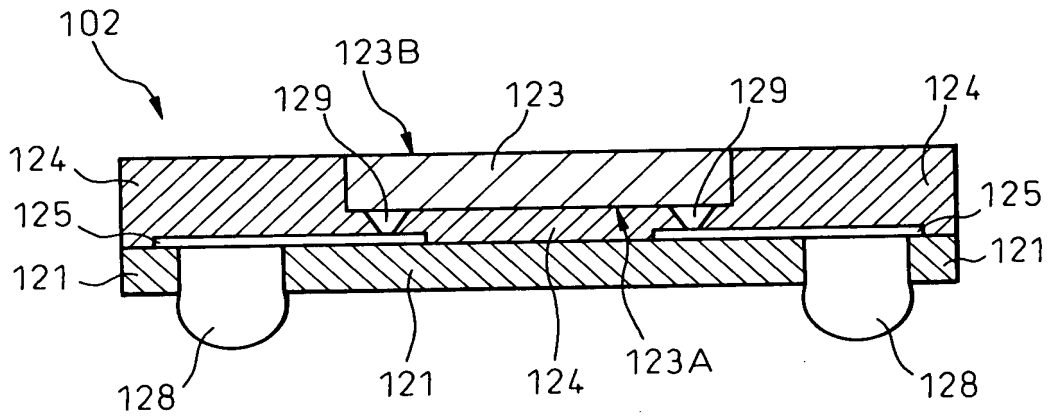


Fig.26

(1)



(2)

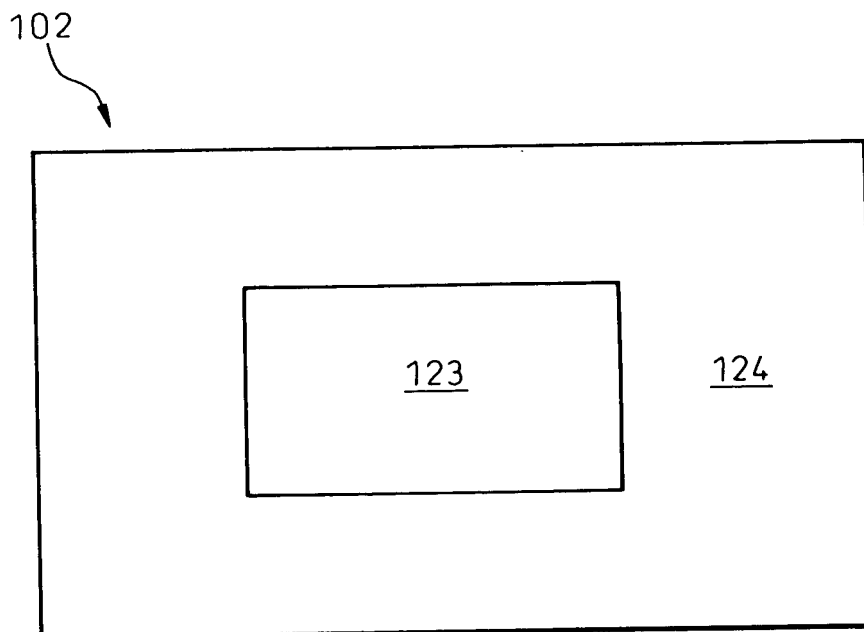


Fig.27

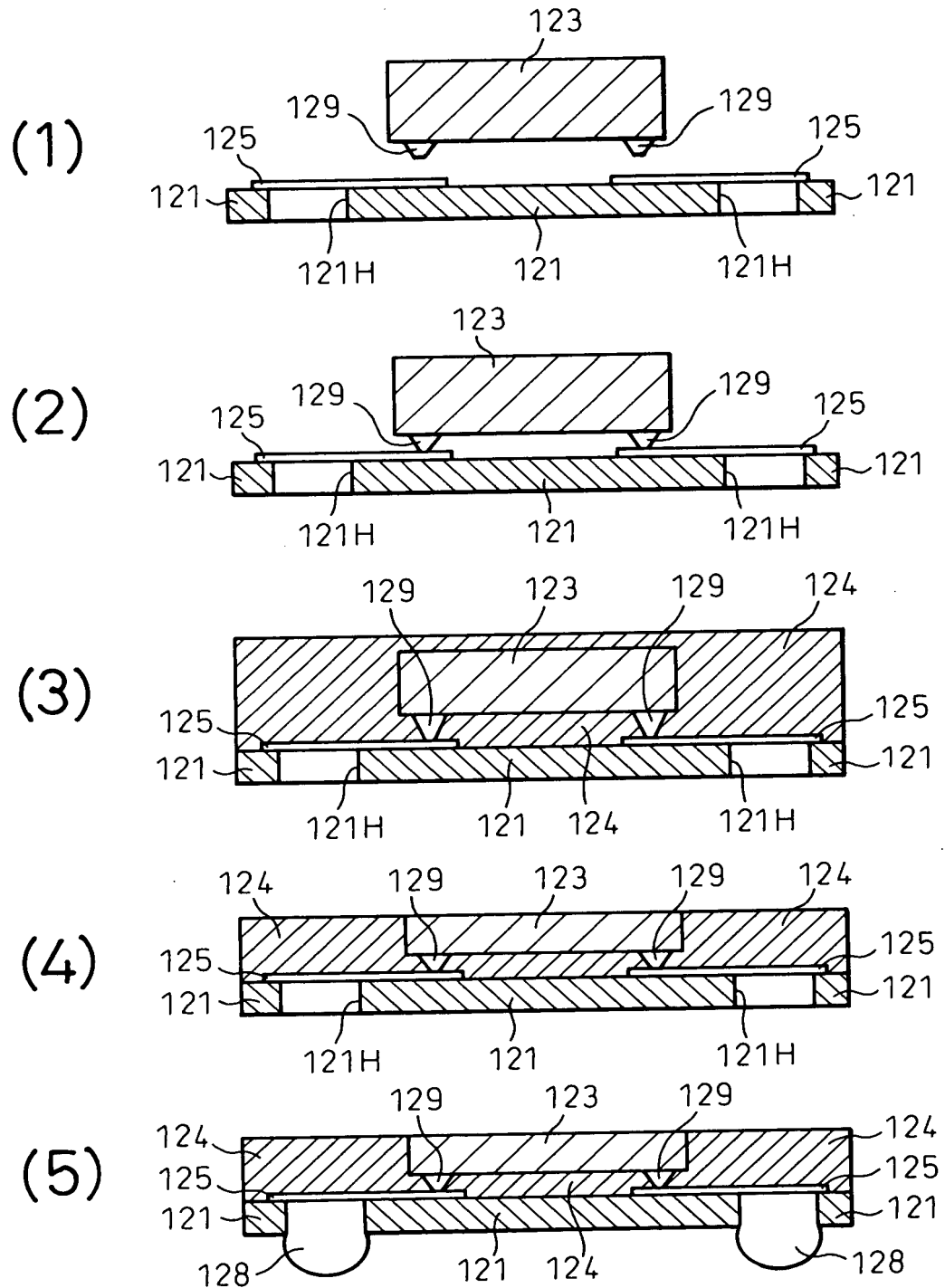
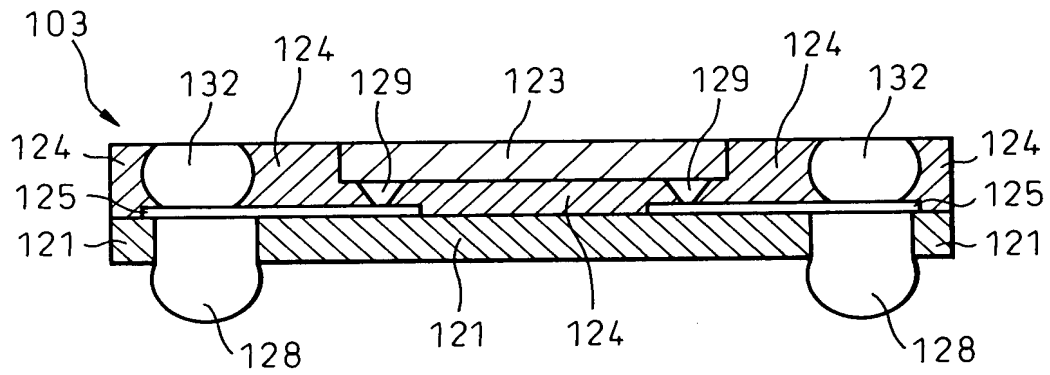


Fig.28

(1)



(2)

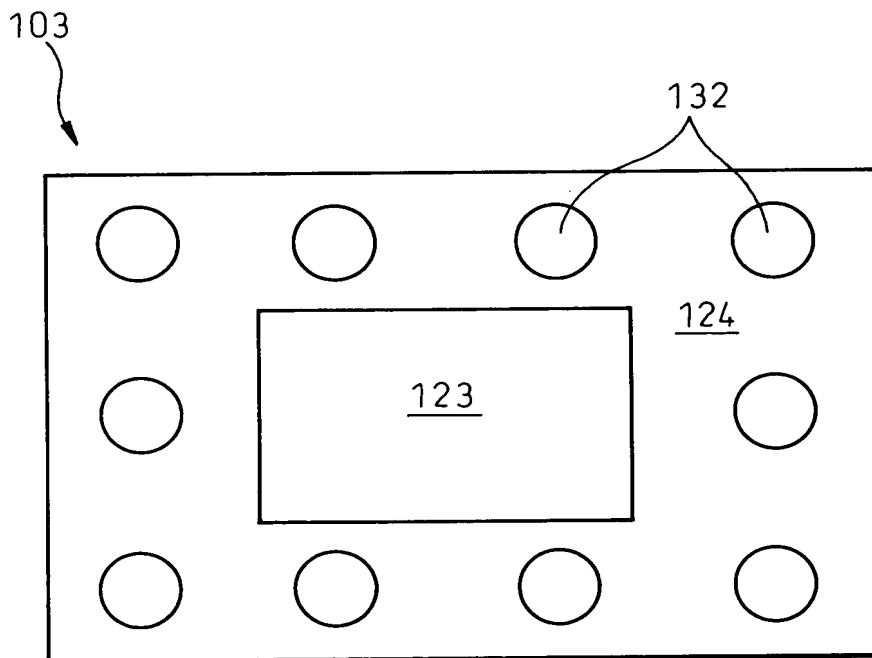
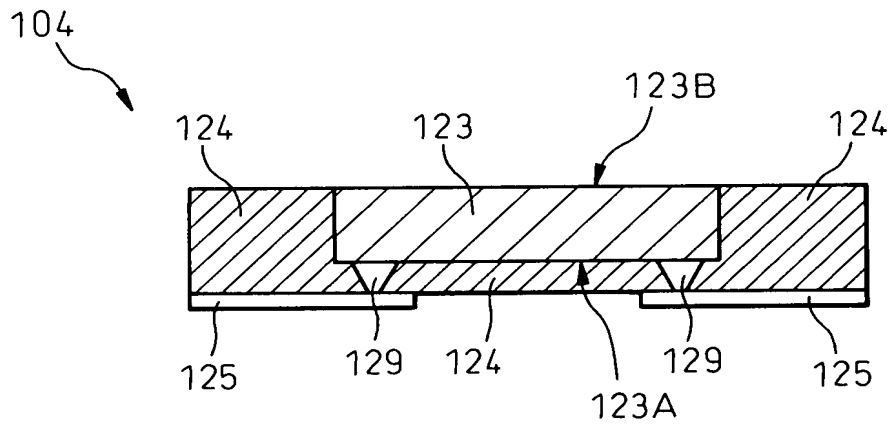


Fig.29

(1)



(2)

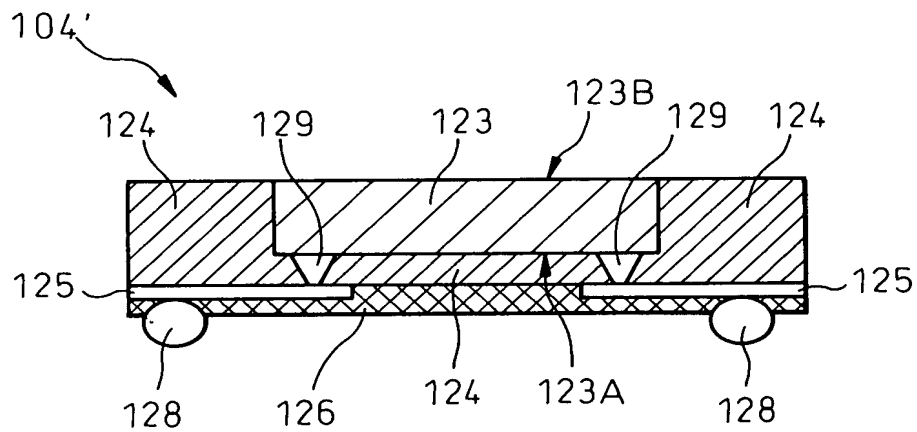


Fig.30

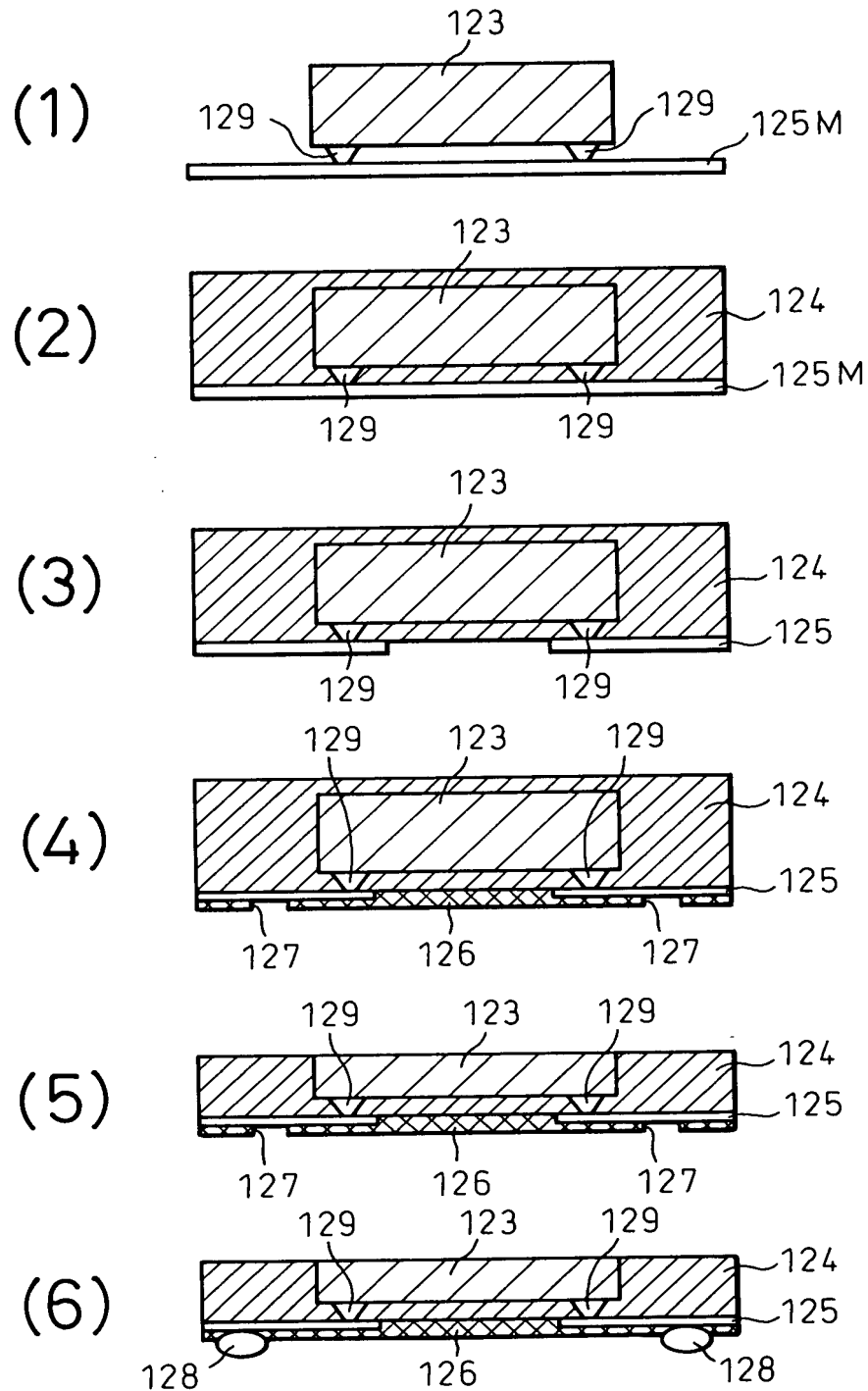


Fig. 31

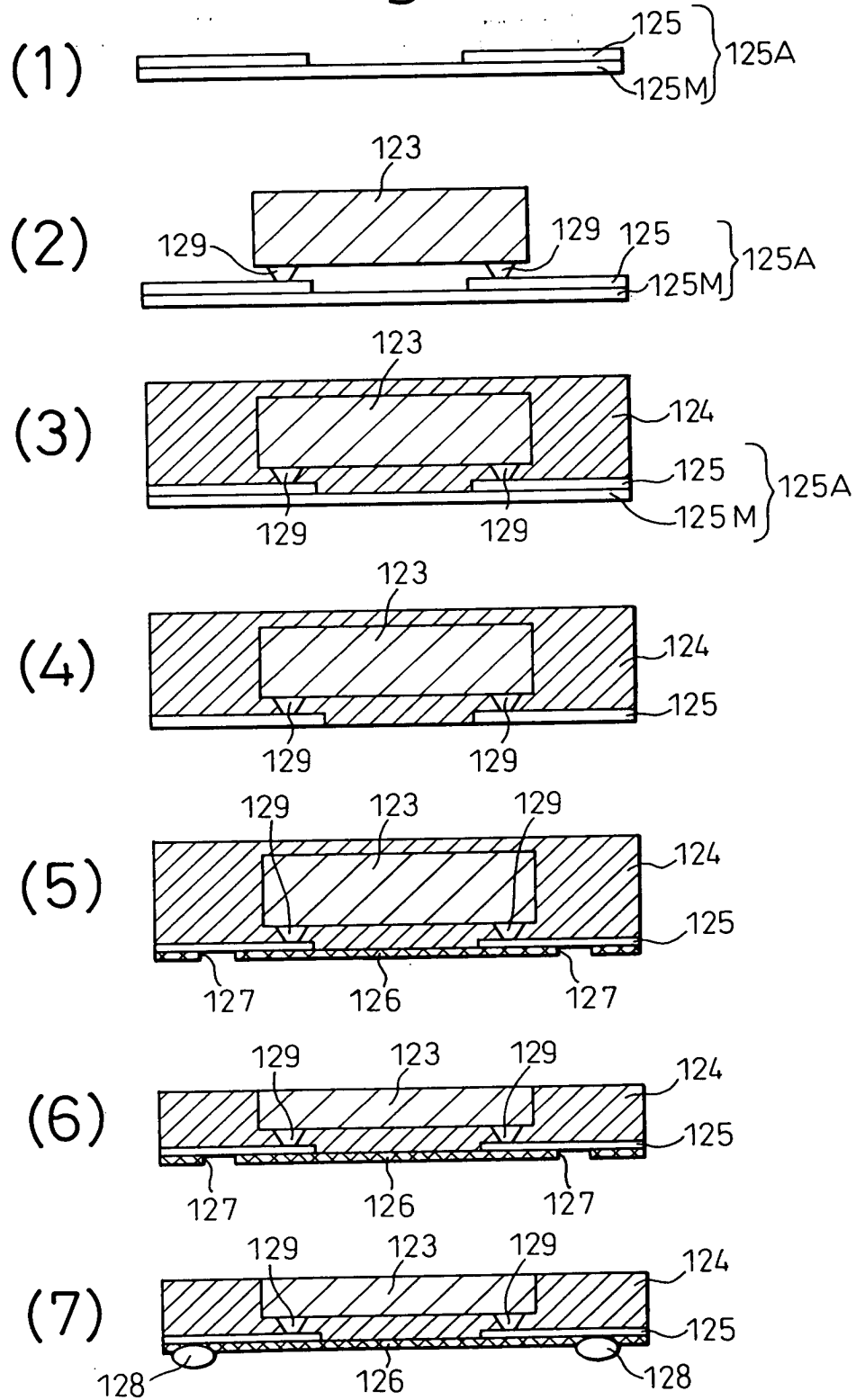
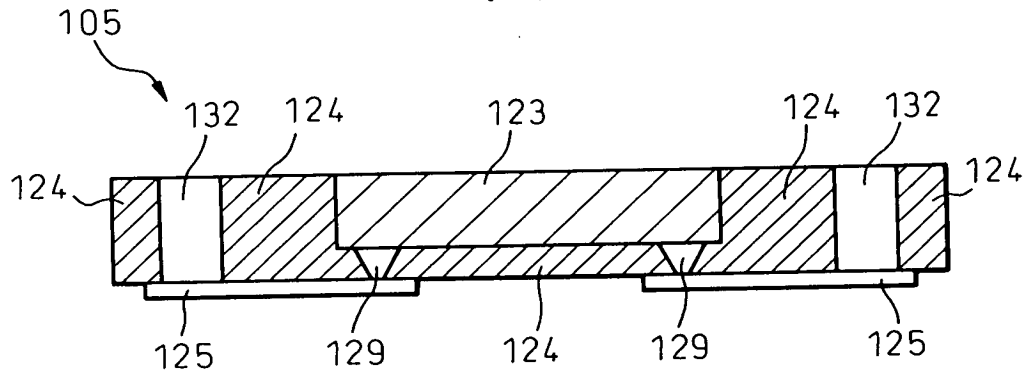
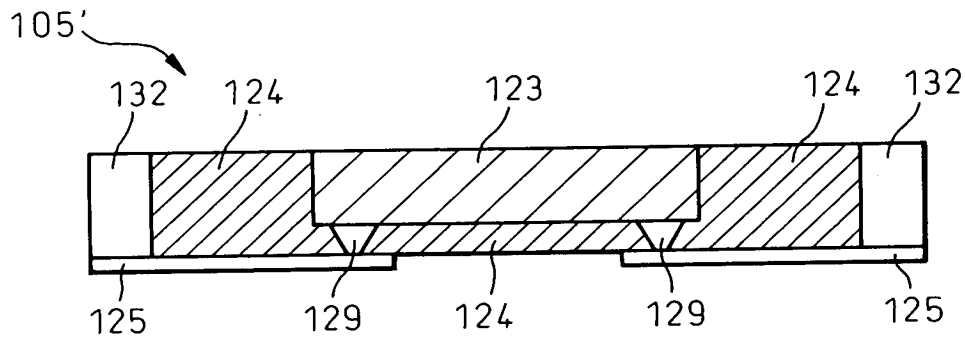


Fig.32

(1)



(2)



(3)

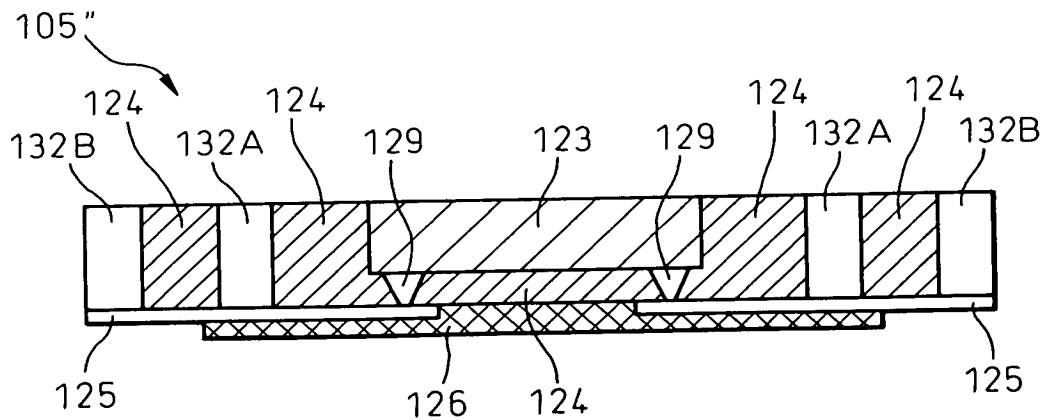


Fig.33

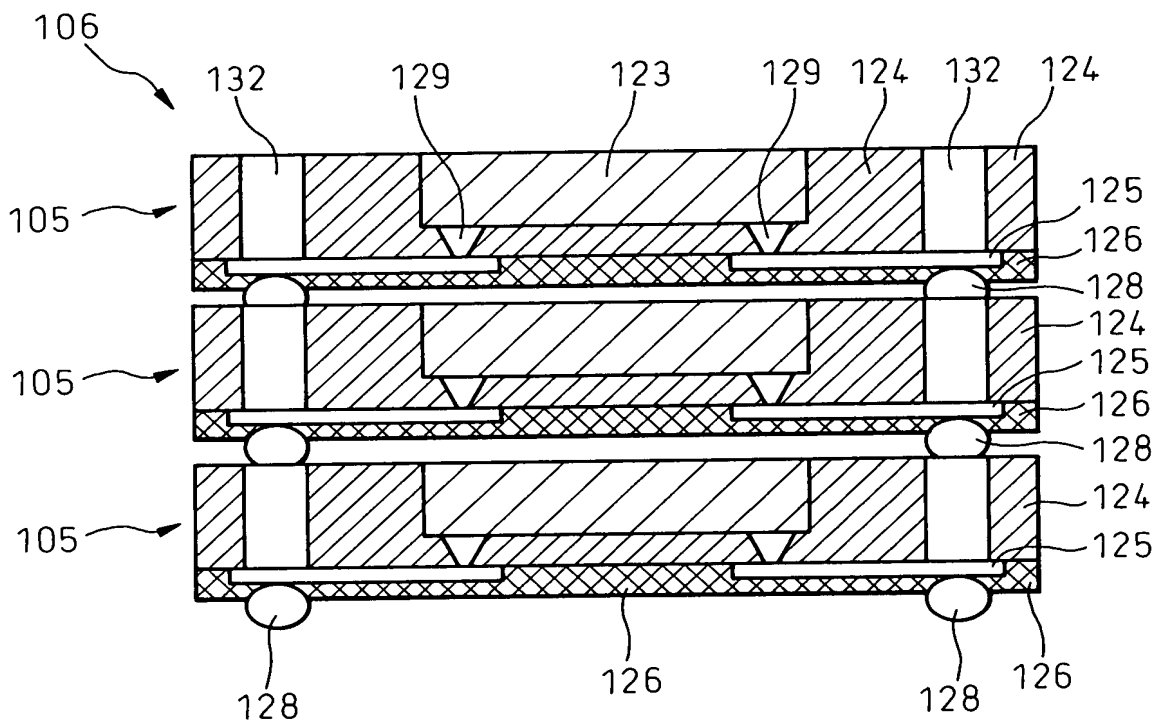
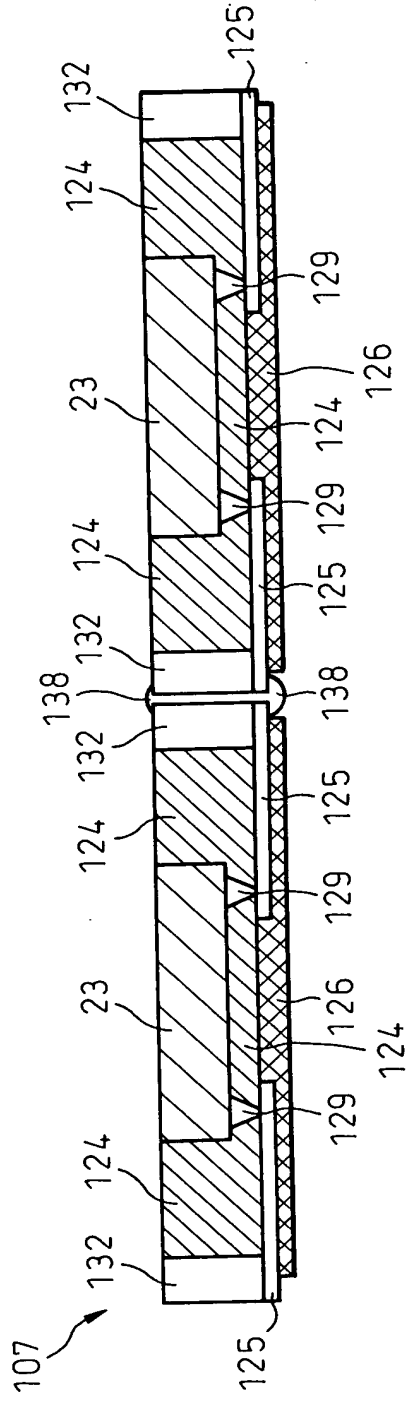
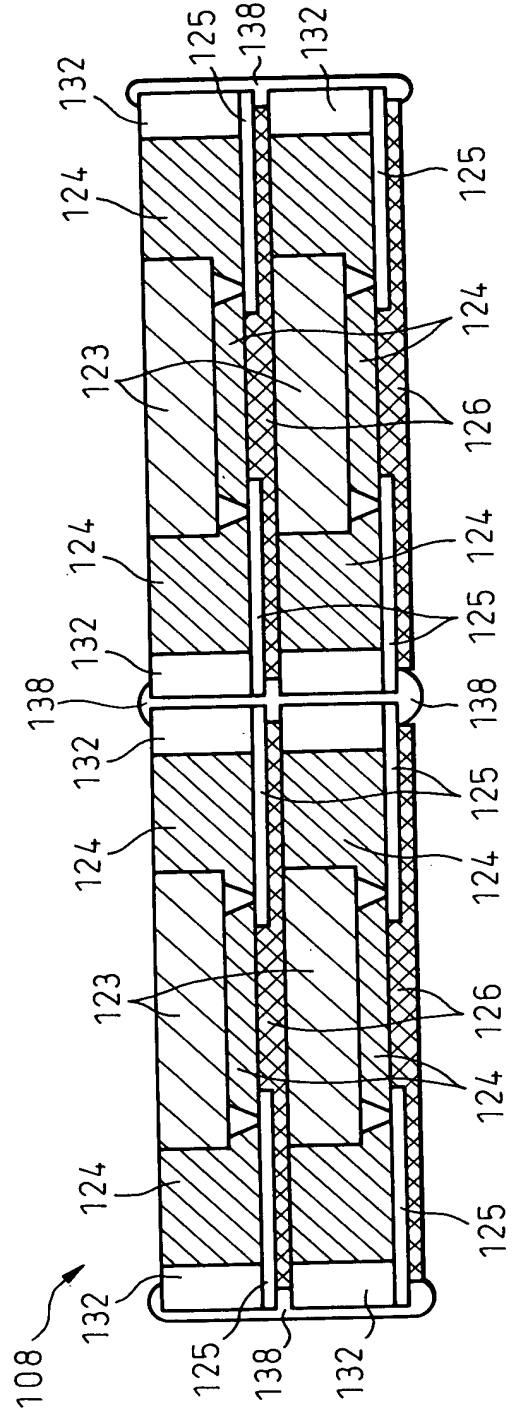


Fig. 34

(1)



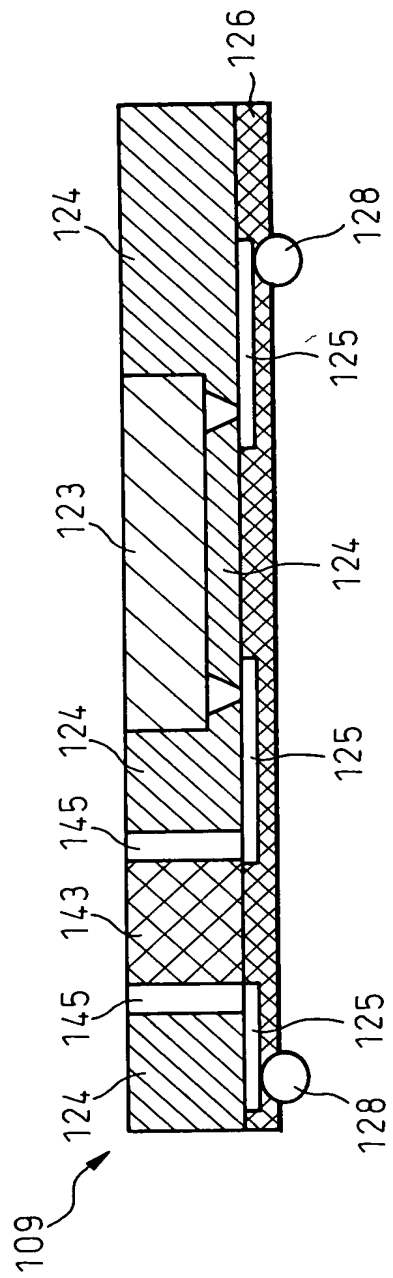
(2)



109 124 145 143 145 124 123 124 126  
 128 125 124 125 128 125

Fig. 35

(1)



(2)

